

CLAIMS

1. Impact attenuating device (1) for a vehicle (2), comprising a front part (3) with a wheel (31), for connection to the vehicle (2), an attenuating part (4), and a rear part (5), **characterised by** that an extension device (6) is arranged between the front part (3) and the attenuating part (4).
2. Impact attenuating device (1) according to claim 1, **characterised by** that the front part (3) is connected to the vehicle (2), preferably to the vehicles frame side member, such that during a collision against the attenuator (1) the forces is transferred to the vehicle (2).
3. Impact attenuating device (1) according to any of the claims 1-2, **characterised by** that the extension device (6) in a first position arranges the attenuator in a transporting position, and in a second position arranges the attenuator in an operating position.
4. Impact attenuating device according to claim 3, **characterised by** that the extension device (6) in the first position extends the attenuator (4) from the front part (3).
5. Impact attenuating device according to claim 4, **characterised by** that the extension device (6) in the second position arranges the attenuating part (4) against the front part (3) such that forces from a collision against the attenuator is transferred to the vehicle.
6. Impact attenuating device according to any of the claims 1-5, **characterised by** that the extension device (6) comprises a hydraulic telescopic device (61).
7. Impact attenuating device according to claim 6, **characterised by** that the telescopic device (61) is connected to the front part (3) via a vertical joint (62), and to the attenuating part (4) via a horizontal joint (63).

8. Impact attenuating device according to any of the claims 1-5, characterised by that the extension device (6) comprises a boom (104), arranged to a link arm (101), such that a cylinder (100) acting on the link arm moves the attenuating part (4) out to a transport position and/or pulls the attenuating part (4) into an operating position.
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9. Impact attenuating device according to claim 8, characterised by that the boom (104) is connected to the front part (3) through a vertical- and horizontal joint (103), such that the attenuating part (4) is movable as a trailer.
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10. Impact attenuating device according to any of the claims 1-9, characterised by that the rear part (5) comprises an operation wheel (51) with a pivot function, for use in the operating position, and two transport wheels (52) for use in transporting position.
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11. Impact attenuating device according to claim 10, characterised by that the operating wheel (51) is in a lowered position in operating position, and in a raised position in transport position.
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12. Impact attenuating device according to claim 10, characterised by that the transportation wheels (52) is in a raised position in the operating position, and in a lowered position in the transportation position.
13. Impact attenuating device according to any of the claims 1-12, characterised by that the impact attenuator (1) comprises an internal hydraulic system (10), such that the vehicles and impact attenuators hydraulic fluids are kept separate.
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14. Impact attenuating device according to any of the claims 1-13, characterised by that the front part (3) comprises two wheels (31) with a pivot function.
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15. Impact attenuating device according to any of the claims 1-14, characterised by that a docking device (7,8) is arranged in the front part (3) and in the attenuating part (4) to secure the rigidity.
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